State of Hawaii DEPARTMENT OF LAND AND NATURAL RESOURCES Engineering Division Honolulu, Hawaii 96813

August 12, 2011

Board of Land and Natural Resources State of Hawaii Honolulu, Hawaii

APPLICATION FOR A DLNR DAM SAFETY CONSTRUCTION/ALTERATION PERMIT PERMIT NO. 58 – NAPILI 4-5 DESILTING BASIN (MA-0127) DAM OUTLET MODIFICATION, NAPILI, MAUI, HAWAII

The Engineering Division hereby submits an application for your approval and authorization for the Chairperson and Department to stipulate conditions and issue a Dam Safety Construction/Alteration Permit for the subject application, "Outlet Modification of the NAPILI 4-5 DESILTING BASIN", pursuant to Hawaii Revised Statutes Chapter 179D.

APPLICANT:

Ms. Rowena Dagdag-Andaya Deputy Director of Public Works County of Maui Department of Public Works 200 South High Street Wailuku, Maui, Hawaii 96793

LANDOWNER:

Russell Y. Tsuji, Administrator State of Hawaii Department of Land and Natural Resources Land Division 1151 Punchbowl Street, Room 220 Honolulu, HI 96813 TMK: (2) 4-3-001:003

SUMMARY OF REQUEST:

Application for a Dam Safety Construction/Alteration Permit for the outlet improvement of the Napili 4-5 Desilting Basin, Napili, Maui, Hawaii (See Exhibit 1)

LOCATION: Napili, Maui, Hawaii

TMK: (2) 4-5-021:022 – State of Hawaii (See Exhibit 2)

BACKGROUND:

The Napili 4-5 Desilting Basin was constructed in the 1980s to allow rainwater run-off to settle out before entering the ocean at Napili Bay. The basin was designed by the Soil Conservation Service (SCS) and is currently maintained by Maui County, Department of Public Works. The Natural Resources Conservation Service (NRCS) in consultation with the local community has proposed to make modifications to the upstream side of the outlet at the basin in an effort to reduce the level of siltation in the water entering the ocean at Napili Bay

The embankment at the Napili 4-5 Desilting Basin Dam is 14.1 feet and has a length of 270 feet. The surface area of the reservoir at the dam crest is approximately 2.3 acres. The dam impounds 25.2 ac-ft of water at the crest. There is an uncontrolled "puka" pipe inlet on the upstream slope which allows stormwater runoff to pass through a 12 inch concrete encased pipe. The dam was designed by the SCS to overtop in extreme flood events and thus has a concrete faced downstream slope to protect the embankment from erosion in such circumstances. The dam has a size classification of "small" and hazard potential classification of "high". (See Exhibit 3)

An August 2010 Phase I Dam Inspection Report by GEI Consultants, Inc. determined that the dam's overall condition was "CONDITIONALLY FAIR". The potential dam safety deficiency was noted to be the 'apparent lack of erosion protection at the abutment contacts'.

An application for the outlet modification of the Napili 4-5 Desilting Basin was filed on July 15, 2011 by the NRCS, on behalf of the County of Maui, Department of Public Works which operates and maintains the dam and reservoir. It should be noted that this structure may fall below the regulatory size and volume for the Dam Safety Program. The County of Maui may pursue requesting the Board to remove this structure from regulatory oversight in the future. However, until then it will continue to be a regulated structure.

PROJECT DESCRIPTION:

The County of Maui is proposing to add a screened intake system to the outlet pipe. Three manually operated gates on the screened intake structure will allow the more rapid draining of the basin from three different elevations should the screen become clogged. The system has been designed to have the same flow capacity of the existing "puka" pipe intake. These improvements are seen to be minor improvements at the facility as very little earth on the upstream face of the dam will be disturbed during the construction sequence. (See Exhibit 4)

HRS CHAPTER 343 – ENVIRONMENTAL ASSESSMENT:

The Engineering Division conducted a review for compliance with HRS Chapter 343 and concurs with the County of Maui's determination that the project qualifies for an exemption from the preparation of an environmental assessment. In accordance with the Exemption List for the County of Maui reviewed and concurred upon the Environmental Council on January 10, 2007. The subject project is considered to be exempt from the preparation of an environmental assessment pursuant to Exemption Class 2 that states: "Replacement or reconstruction of existing structures and facilities where the new structure will be located generally on the same site and will have substantially the same purpose, capacity, density, height, and dimensions as the structure replaced." The applicable subclass is 1 that includes "drainage facilities, earth berms, and stream banks without historic value." (See Exhibit 5)

REMARKS:

The applicant (County of Maui DPW), the owner (DLNR), and the applicant's consultant (NRCS), have completed a basis of design, plans and specifications for the outlet modification, and bid and awarded the project. The County of Maui has requested for the approval of the submitted dam safety construction/alteration permit. The staff of the Dam Safety Program has reviewed the documents and concluded that they are sufficient for their intended purposes. Staff recommends approval of this permit application subject to the Dam Safety Permit General and Special Conditions. (See Exhibit 6)

SPECIAL CONDITIONS:

1. An Operations & Maintenance Manual be submitted to the Dam Safety Program prior to the start of construction.

RECOMMENDATION:

That the Board:

- 1. Authorize the approval and issuance of the Dam Safety Construction/Alteration Permit for this project; and
- 2. Direct the Chairperson to issue a dam safety permit for the outlet modification at the Napili 4-5 Desilting Basin (DLNR Dam Safety Construction/Alteration Permit No. 58) subject to such other terms and conditions as may be prescribed by the Chairperson to best serve the interests of the State.
- 3. Authorize the Department to oversee the permitted work and take appropriate action including but not limited to selecting and procuring testing or professional services to verify construction work, approval of minor revisions and changes, issuance of fines and /or revocation of the permit, if necessary.

Respectfully submitted,

JARTY SICHAN

Mef Engineer

APPROVED FOR SUBMITTAL:

WILLIAM J. AILA, JR., Chairperson

Board of Land and Natural Resources

Exhibit(s):

mugalf

- 1 Owner Permit Application
- 2 Location Map / TMK Map
- 3 Site Images
- 4 Partial Construction Drawing set
- 5 Environmental Assessment Exemption Justification (Chapter 343 HRS)
- 6 Dam Safety Permit General Conditions

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DLNR-Dam Selety-Sheet 1

State of Havraii BOARD OF LAND AND NATURAL RESOURCES Department of Land sid Natural Resources Boglissing Division

Application for approval of flans and specifications for construction, enlargement, repair, alteration, or removal of a dam

Applicant:		of Application: July 1	MERCENTAL AND SERVICES OF THE
Contest Name: Route Dagdag	Andaya Fin	n / Company: <u>County</u>	of Maul
Mailing Address 200 South High	Street, Walkdon, Man	i, Heirali 96793	
Telephane: (606) 270-7845	Perc: (808) 270-7965	Brootl: Public Work	M@co.meul.hlus
The Applicant hereby applies to it plans and specification for the cets.) in eccuriones with Chapter provisions, conditions, and limited days and ty-guidelines.	79D HRS (as amend	Aregion of by Act 262, St. H 26	(construction,
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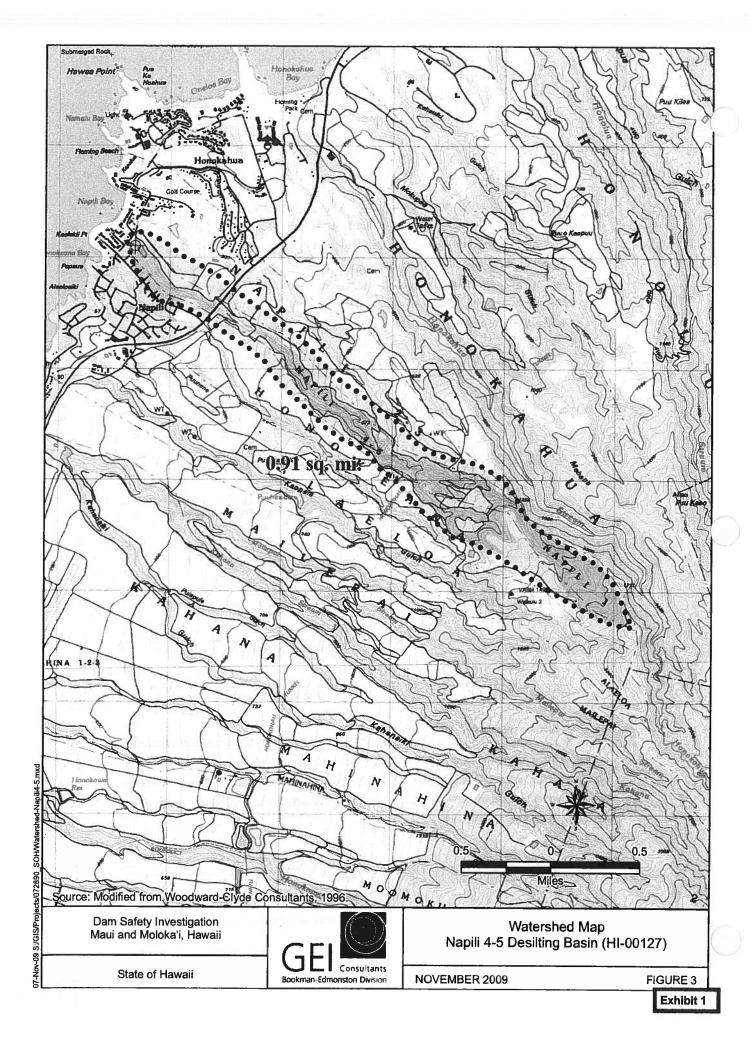
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2.	Classification of Des	a Stre clean	Mostlon: small; H	lazard potential o	lessification: high
3.	Type of Structure		THE SHOP BETTER THE STORY		
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	Secondary Spills	My	NA	NA	NA
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	Spillway Details (Type Primary: Secondary:	Overtopping NA	embeniument; 2	70' x 12' (byp.); rei	inforced concrete crest
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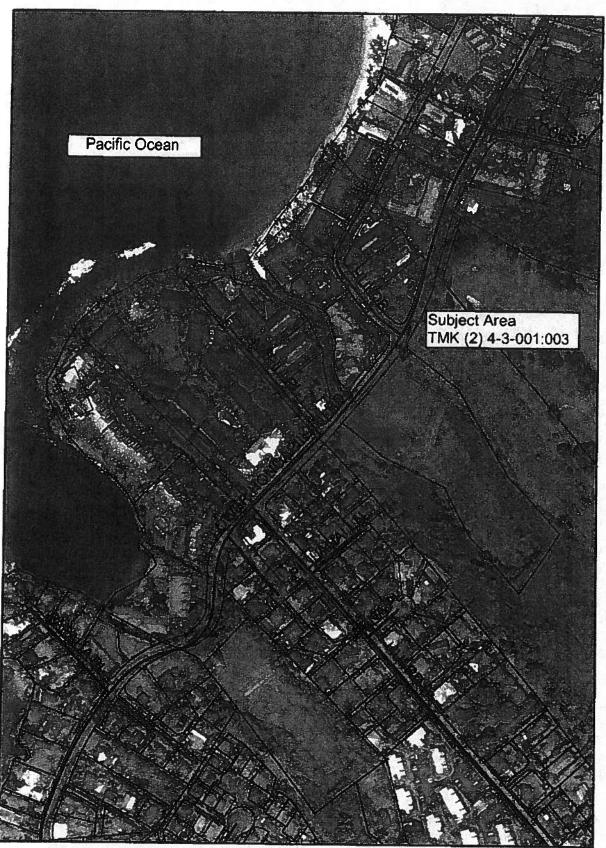
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	provisions of Chapter 13-190, Hiswali Administrative
tules. (Submit additional copies of this sh	cot should there by more owners)
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Signature of Owner) Chairperson	(Address / Inferest in Dam or Reservois)
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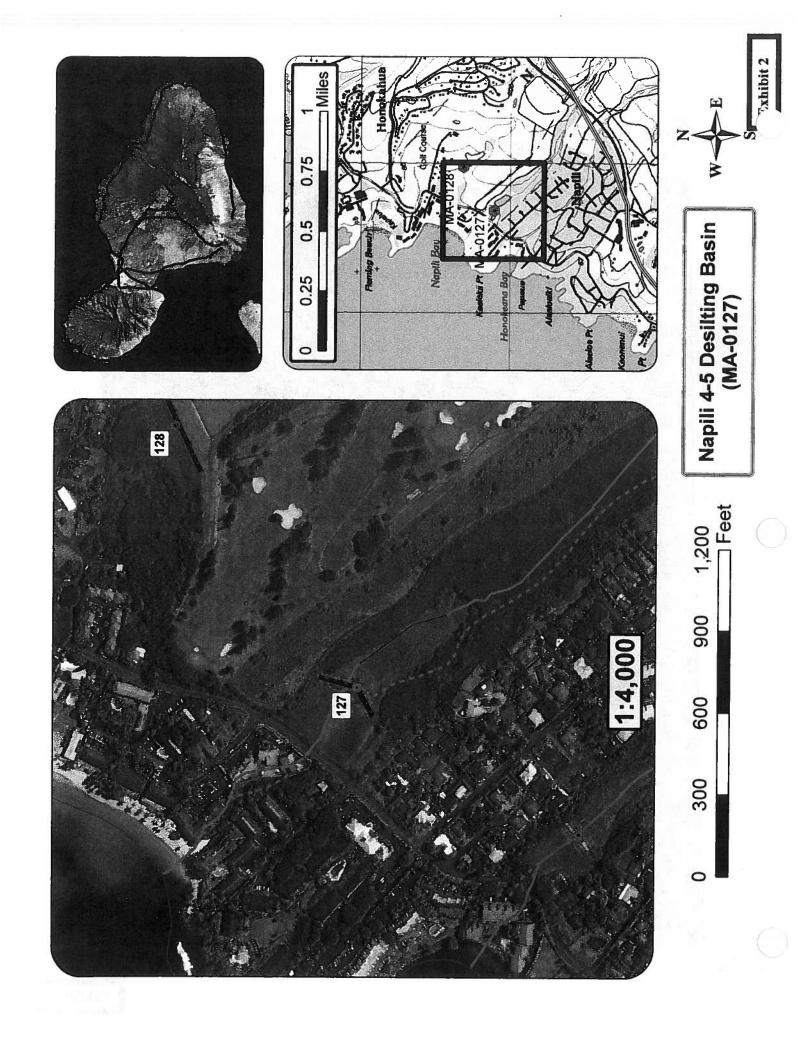


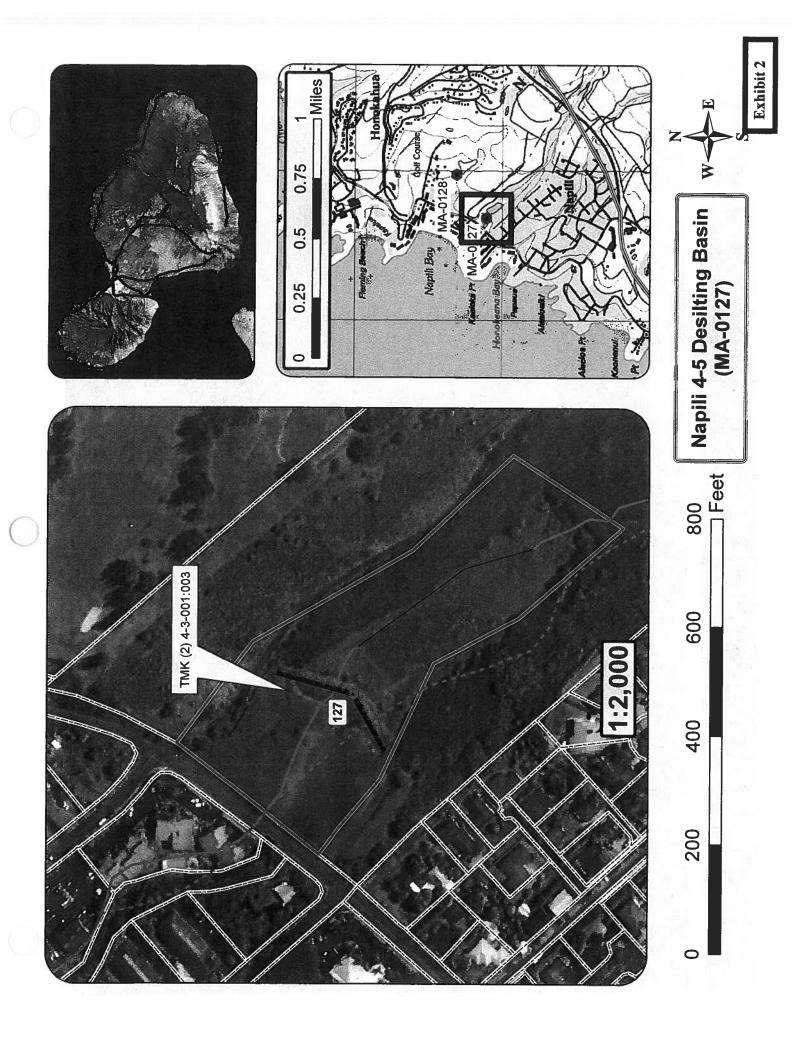
Project Location Map Storm Runoff Remediation, Napili 4-5 to Napili Bay, TMK (2)4-3-001:003



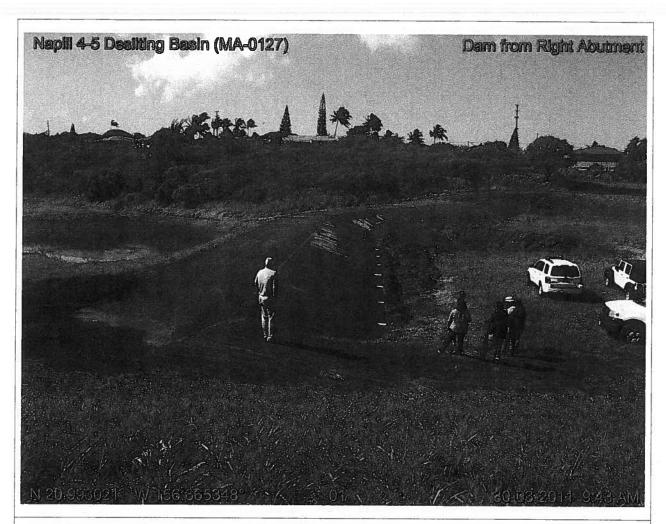


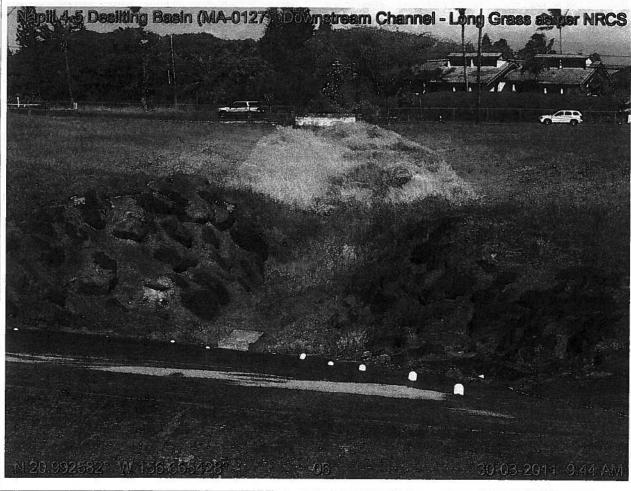
Source: Maui County GIS, Maui County Real Property Tax

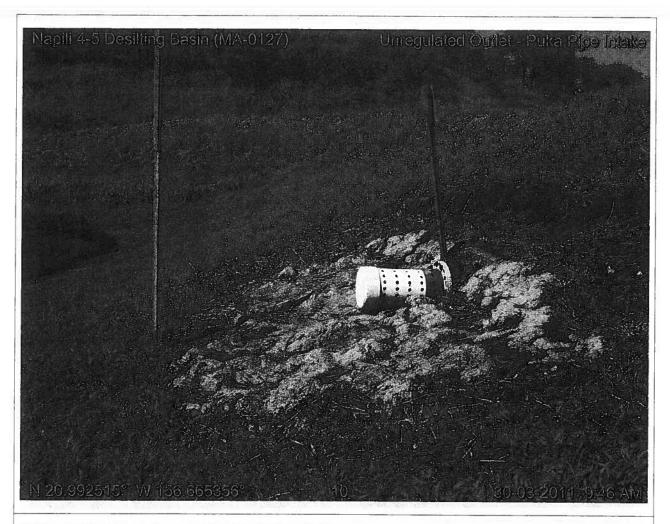


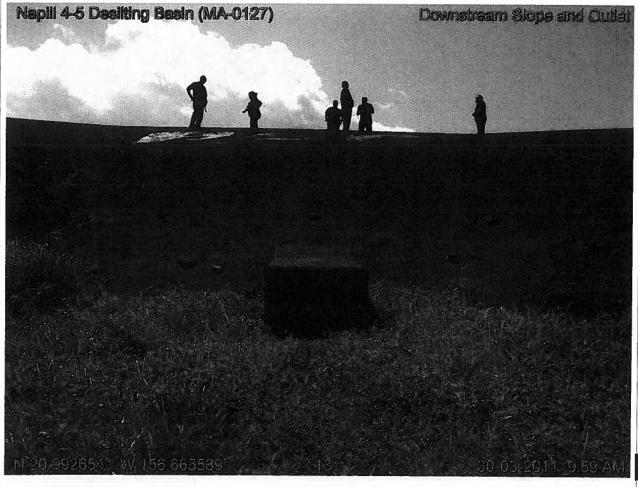


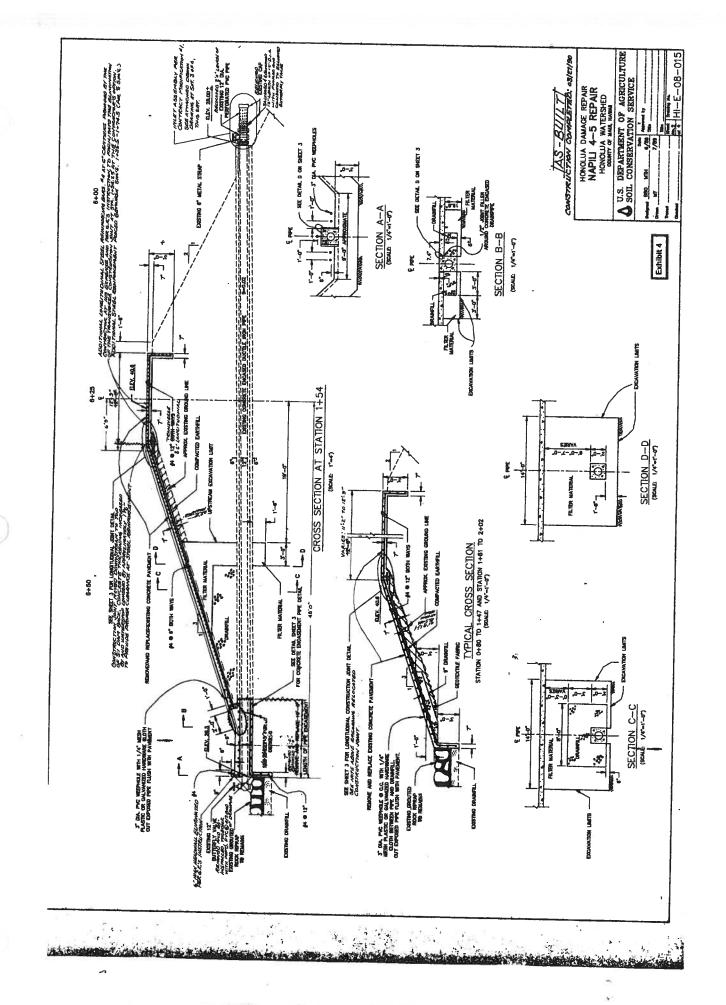


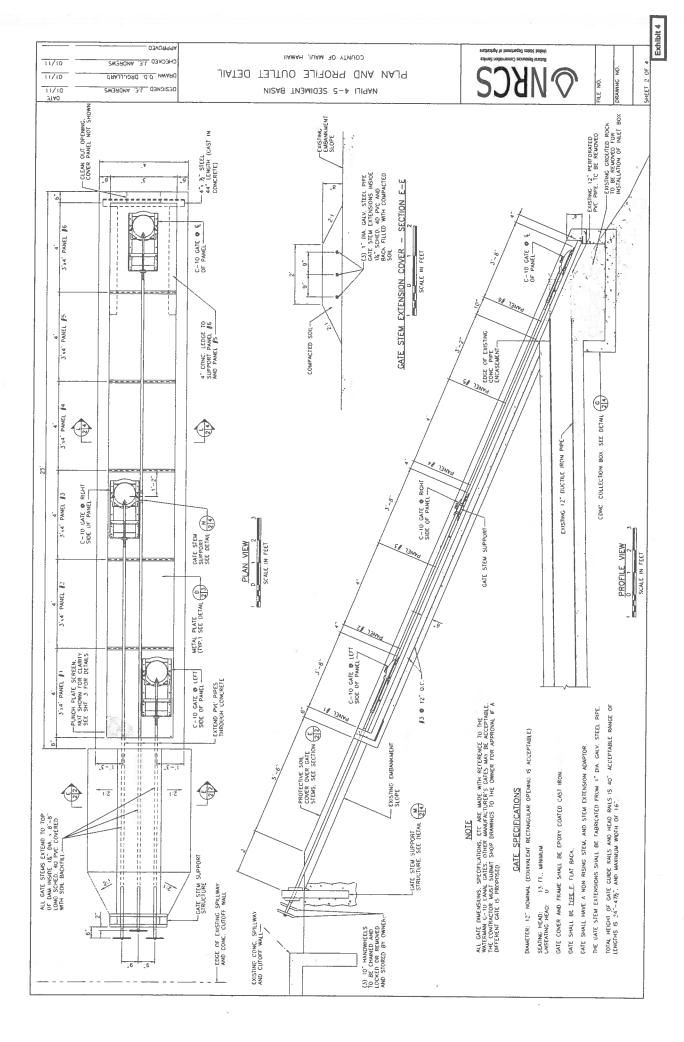


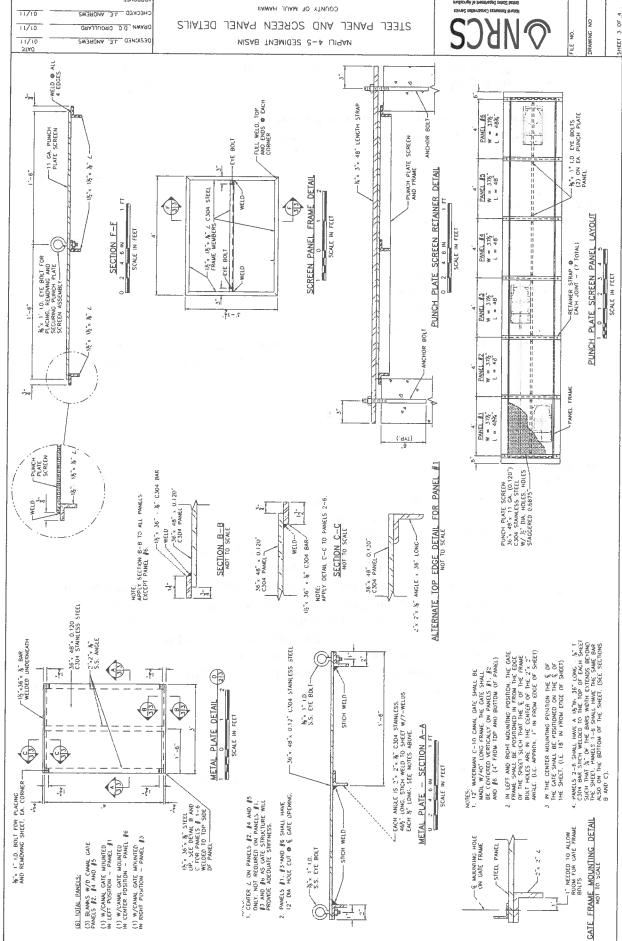












Projec	ct Name	: Outlet Modification of Napili 4-5 Sediment Basin (MA-0127)
Revie	wer:	John Dawley Date of Review: 21-July-2011
		one with Finding of no Significant Impact (FONSI) one with Finding of no Significant Impact (FONSI)
If FO	NSI has	been issued no further analysis is required. Date of FONSI:
		(HRS §343-5(a)) ction" that triggers the need for an EA?
Action	<u>n</u>	
	An "ac	Initiated by an agency Initiated by an agency Initiated by an "applicant" Any person who, pursuant to statute, ordinance, or rule, officially requests "approval" for a proposed action (discretionary consent required from an agency prior to actual implementation of an action, distinguished from a ministerial consent) Statute Ordinance Rule
Trigge	ers	
Yes X	No	Use of state or county lands or funds Use of conservation district lands Use within shoreline setback area Use of historic site designated on the National or Hawaii registers Use of land in the Waikiki Special District Amendment to county general plan which would result in designations other than agriculture, conservation, or preservation unless initiated by a county Reclassification of conservation lands by the Land Use Commission Construction or modification of helicopter facilities that may affect conservation district lands, a shoreline setback area, or a historic site Wastewater facilities, waste-to-energy facility, landfill, oil refinery, or power-generating facility
	Is there	rs summary: e a trigger? If Yes, Go to Exemptions to determine if the program or project is exempt If it is not exempt an Environmental Assessment is required If No, No Environmental Assessment required

Exhibit 5

EXEMPTIONS

Two sources of exemptions: exemption lists or exemptions contained in HAR §11-200-8(a) 1. **Exemption Lists** Division exemption lists Department-wide exemption list Other exemption lists - Exemption List for the County of Maui Explain (which exemption list, which exemption, how it applies): "Exemption List for the County of Maui" as reviewed and concurred upon the Environmental Council on January 10, 2007. This list also supersedes the previous list that was reviewed and concurred upon by the Environmental Council on April 26, 2007. Specifically Exemption Class 2 pertaining to the replacement or reconstruction of existing structures or facilities. (Page 4 of 12) The applicable subclass is 1 – "drainage facilities, earth berms, and stream banks without historic value" (Page 4 of 12) - Exhibit 5 The original design called for a butterfly valve on the upstream slope. This has been removed. The improvement is to put a screened intake with three auxiliary control gates back so that water may be desilted and further screened before being discharged to Napili Bay. The three auxiliary gates will allow for draining if the screened intake were to become clogged. This represents an replacement upgrade at the existing facility. 2. HAR §11-200-8(a) exemptions Operations, repairs, or maintenance of existing structures, facilities, equipment, or topographical features, involving negligible or no expansion or change of use beyond that previously existing Replacement or reconstruction of existing structures and facilities where

same, including, but not limited to:
(a) Single family residences less than 3,500 square feet not in conjunction with the building of two or more such units;

the new structure will be located generally on the same site and will have substantially the same purpose, capacity, density, height, and dimensions

Construction and location of a single, *new*, *small facilities* or structures and the alteration and modification of the same and installation of new, small, equipment and facilities and the alteration and modification of

as the structure replaced

	units if not in	uctures designed for <i>not more than four dwelling</i> conjunction with the building of two or more such			
	twenty person	s, and restaurants designed for total occupant load of s or less per structure, if not in conjunction with the so or more such structures; and			
	(d) Water, sewag utility service accessory or a	e, electrical, gas, telephone, and other essential public s extensions to serve such structures or facilities; appurtenant structures including garages, carports, ning pools, and fences; and acquisition of utility			
	Minor alterations in	the conditions of land, water, or vegetation			
		research, experimental management, and resource hat do not result in a serious or major disturbance to ource			
	Construction or placement of <i>minor structures accessory</i> to existing facilities				
	Interior alterations involving things such as partitions, plumbing, and electrical conveyances				
		res, except those structures located on any historic the National or Hawaii registers			
	Zoning variances exce	ept shoreline set-back variances			
		ative activities including, but not limited to purchase anel related actions; and			
	dwelling units, for the material change of us	and existing structures, including single or multi-unit to provision of affordable housing, involving no e beyond that previously existing, and for which the priated or otherwise authorized funding			
Explai	in (how the exemption	indicated above applies):			

Exemptions summary:			
Does the Project qualify for an exemption If Yes, Exemption noted above If No, Project requires Environme		No	
CUMULATIVE IMPACT			
Exemptions are inapplicable when the cumulative same place, over time, is significant, or when an a on the environment may be significant in a partic	action that is	normally insignifi	
Additional Notes		*	

ALAN M. ARAKAWA Mayor

DAVID C. GOODE Director

ROWENA M. DAGDAG-ANDAYA
Deputy Director

Telephone: (808) 270-7845 Fax: (808) 270-7955



COUNTY OF MAU! **DEPARTMENT OF PUBLIC WORKS**200 SOUTH HIGH STREET, ROOM NO. 434 WAILUKU, MAUI, HAWAII 96793

July 21, 2011

RALPH NAGAMINE, L.S., P.E. Development Services Administration

CARY YAMASHITA, P.E. Engineering Division

BRIAN HASHIRO, P.E. Highways Division

MEMO TO: FILE

FROM:

DAVID C. GOODE

DIRECTOR OF PUBLIC WORKS

SUBJECT:

STORM RUNOFF REMEDIATION, NAPILI 4-5 TO NAPILI BAY, TMK: (2)

4-3-001:003

According the "Exemption List for the County of Maui" as reviewed and concurred upon by the Environmental Council on January 10, 2007, we have determined that this project falls under Exemption Class 2 pertaining to the replacement or reconstruction of existing structures or facilities. The applicable specific subclass is: "1, Drainage facilities, earth berms, and stream banks without historic value." Thus, this project is exempt from the preparation of an environmental assessment.

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EXEMPTION LIST FOR THE COUNTY OF MAUI

HISTORICAL NOTE

This exemption list for the County of Maui was reviewed and concurred upon by the Environmental Council on January 10, 2007. This list also supersedes the previous list that was reviewed and concurred upon by the Environmental Council on April 26, 1995.

GENERAL NOTE

Section 343, HRS authorizes the Environmental Council to establish procedures to exempt specific types of action from the need to prepare an environmental assessment because the action will have minimal or no significant effect on the environment.

The following types of projects will not be exempt:

- Project requiring detailed analysis as provided in an environmental assessment under \$343-5. These include, but are not limited to places listed on the Federal or State registers of historic places.
- Project in statutorily defined areas, including but not limited to: critical habitats, special management areas, special design districts, registered view planes or scenic corridors, wet lands, sanctuaries, special habitats, shoreline areas, tsunami inundation areas, or other designations; except where the work is eligible for exemption and there is no negative impact on the conditions that defined these areas.
- 3. Major projects without an Environmental Impact Statement (EIS); an Environmental Assessment with a Finding of No Significant Impact (EA/FONSI); or major projects that were never presented at a public meeting concerning site selection, master plan report, or any phase of incremental construction.
- Major project without a program to encourage public input into the design or siting of a project.

Pursuant to HAR \$11-200-8(B), all exemptions under the following classes in this section are applicable when the cumulative impact of planned, successive actions of the same type, in the same place, over time, is significant; or when an action that is normally insignificant in its impact on the environment may be significant in a particular sensitive environment, as expressed in #2 above.

Pursuant to the administrative rules promulgated under authority of Section 343-6(7), HRS, specifically Section 11-200-8, Hawaii Administrative Rules (HAR); the County of Maui has determined that the following types of actions, where they fall within the given classes of action, shall generally be exempt from the preparation of an environmental assessment.

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mitigation including, but not limited to, firebreaks, emergency landing zones, staging and operational sites

13. Construction staging areas

EXEMPTION CLASS 2

Replacement or reconstruction of existing structures and facilities where the new structure will be located generally on the same site and will have substantially the same purpose, capacity, density, height and dimensions as the structure replaced.

This exemption class includes agency actions intended to meet the agency's goals and objectives by replacement in whole or in part, the following, provided there is little or no increase in capacity.

- Drainage facilities, earth berms, and stream banks without historic value
- Roadways, traffic control devices, accessible ramps and handrails, bollards and vehicle access barriers, driveways, parking lots, walkways, bikeways, jogging paths and multi-use pathways
- 3. Utility services, including sewer, water, drainage, electrical, communications, irrigation, and fuel systems, except where a State Department of Health permit is required
- 4. Equipment installations, including but not limited to, pumps; electrical transformers, cabinets, panels, and vaults; power, light, and telephone pole systems; heating, ventilation, and air conditioning (HVAC); irrigation controllers; telephone stations; emergency electrical generators; and lifts provided for handicapped accessibility
- 5. Fencing, curbing, walls, and gates
- 6. All Parks and Recreation buildings, structures, athletic fields, athletic courts, botanical gardens, plant nurseries, and skate parks
- 7. Replacement or reconstruction of existing

DAM SAFETY PERMIT GENERAL CONDITIONS

APPROVAL OF PLANS AND SPECIFICATIONS FOR DAM AND RESERVOIR CONSTRUCTION, ENLARGEMENT, REPAIR, ALTERATION OR REMOVAL

The following General Conditions shall be adhered to for all Dam Safety permits unless otherwise authorized in writing.

- 1. Actual construction, enlargement, repair, alteration or removal shall be completed within 5 years of issuance of the permit application approval unless an extension authorized in writing by the Board is issued.
- 2. Prior to the start of work the owner or applicant shall provide a construction engineer to ensure compliance with the approved plans and specifications and who shall have ultimate responsibility for the supervision of all inspection tasks. The construction engineer may assign some inspection tasks to a duly authorized agent under the construction engineer's supervision. The engineer shall be licensed in the State of Hawaii.
- 3. The construction engineer shall maintain a record of construction that at a minimum, shall include, daily activity, and progress reports, all test results pertaining to construction; photographs sufficient to provide a record of foundation conditions and various stages of the construction through completion, all geologic information obtained; and construction problems and remedies.
- 4. A construction quality assurance plan shall be prepared and submitted to the Department for approval prior to the start of construction, which details the minimum requirements of the construction engineer's observation of construction.
- 5. A construction schedule, which includes the notice to proceed date and estimated project duration and a construction emergency action plan shall be submitted prior to the preconstruction meeting.
- 6. A preconstruction meeting shall be held subsequent to submitting the quality assurance plan, construction schedule and construction emergency action plan, but not later than 14 days prior to the start of construction. All parties actively involved in the construction should be requested to attend, such as the dam owner, the design engineer, the construction engineer, the contractor and the Department.
- 7. The Department shall be notified 5 calendar days prior to the commencement of construction.
- 8. Any changes from the approved plans and specifications shall be approved by the design engineer and a change order, including details and supporting calculations, must be provided to the Department. Major changes must be submitted in writing with supporting documentation and approved in writing by the Department. No work shall be initiated until the approval by the Department or Board is received. Minor changes may be transmitted verbally and approved by the Department verbally provided that documentation of the change is provided to the Department within 10 days of the approval.

- 9. For new dam construction and for dams and reservoirs that have lowered the water level or have been drained to facilitate construction, the construction engineer shall file and obtain approval of a filling plan with the Department. The applicant/owner shall not proceed with the filling of the reservoir until it receives permission from the Department. The construction engineer shall provide documentation of monitoring during the filling operation.
- 10. Prior to the filling of the reservoir, the construction engineer shall submit one copy each of the approved Operations Manual and the approved Emergency Action Plan for the facility upon completion of the project as applicable.
- 11. The construction engineer shall give the Department at least ten days advanced notice of initial materials placement of the dam's foundation, in the cutoff trench, outlet backfill, outlet foundation, and any appurtenance requested by the Department in the approval of the plan for construction observation, to allow for observation by the Department.
- 12. Notice of substantial completion shall be issued by the construction engineer to the Department stating that the permitted improvements are functionally complete such that filling of the reservoir can be initiated with an approved filling plan.
- 13. The construction engineer shall give the Department fifteen (15) calendar days advance written notice prior to the project's final construction inspection. The construction engineer shall coordinate with the Department to conduct this inspection in the presence of the Department's dam safety personnel.
- 14. The construction engineer shall provide notice at least ten (10) days prior to initiating filling the reservoir, unless agreed at the final inspection.
- 15. If conditions are revealed which will not permit the construction, enlargement, repair, alteration, or removal of a safe dam or reservoir, the application for approval for construction, enlargement, repair, alteration, or removal shall be revoked.
- 16.A topographic survey of completed work including all monuments, inverts, crest alignment, spillways, and significant appurtenant features, when required by the Department shall be completed.
- 17. The applicant/owner shall utilize appropriate erosion control best management practice measures during construction to minimize turbidity (such as scheduling of work during period of low stream flow) and prevent debris and construction materials, including concrete, petroleum products, and other pollutants from enter the waters of the State. Construction related water and debris should be properly disposed of in a legal and environmentally safe manner and in accordance with the Department of Health and other Federal regulations.
- 18. The applicant/owner shall submit a copy of the dam safety application and the plans and specifications of the proposed improvements to the County Engineer of the County for which the dam resides for compliance with County codes.
- 19. Within fifteen (15) calendar days of completing the project, the applicant/owner or its representative shall provide the Department with a confirmation letter of compliance, signed and stamped by the construction engineer, indicating that the construction

was completed in accordance to approved plans and specifications including any field changes. The construction engineer shall submit the remaining construction completion documents which may include, but not be limited to, as-constructed drawing, final construction report, topographic survey, record of the location of permanent monuments, log of recorded water levels and other readings from the refilling operation, long-term instrumentation monitoring plan, and affidavit showing the actual cost of construction including engineering costs, within 60 calendar days of the submittal of the final construction inspection.

- 20. Construction completion documents and the construction engineer's certification shall be provided to the Department within 60 days of the final construction inspection. The Department will review the submitted items and furnish acceptance or denial within 60 days of receipt of satisfactorily completed construction completion documents and close out the dam safety permit.
- 21. This permit does not relieve the applicant/owner of their obligations to comply with all applicable Federal, State, and County regulations.